

Eliza Wojtasik

## Handout No. 1

group 1

Volcanism characterizes different stages of being active. Those stages appear as well as periods of calm, which may make volcano asleep or even expire. It may be caused by pressure drop inside magma chamber or position change between volcano and hot spot. Above such volcanoes happen shield volcanoes, which are characteristic for Hawaii (diagram of the mantle plumes' islands formation visit:

[https://upload.wikimedia.org/wikipedia/commons/5/57/Hawaii\\_hotspot\\_poster.jpg](https://upload.wikimedia.org/wikipedia/commons/5/57/Hawaii_hotspot_poster.jpg)), [access: 25.01.2016].

group 2

Lava may have different shape e.g *pillow lava* (appear due to underwater eruption, usually consist of basalt), *Lava pāhoehoe* (which looks like lace streaks, strongly curved and twisted) or *Lava aa* (which is basalt lava and usually its surface is rough and jagged). Lava aa concept appeared in Hawaii and comes from the cry of pain of Polynesians, running barefoot on a rocky surfacends (to view different kinds of lavas visit Wikimedia Commons).

group 3

Slot Volcano is characteristic for rift zones which provide much of the world's lava (it is about 75% of Earth surface). *Traps* (extensive lava fields) happen as their eruption result. They are up to 0,5 mln km<sup>2</sup>. They look like huge steps. Traps of Indian Peninsula near Deccan Plateau seem to be the best example. According to scientists extensive volcanic processes which happened on the plateau, preceded the extinction of the dinosaurs who dated from the end of Cretaceous era.